

provided around said conductor [(4)], a solid insulating layer [(7)] is provided around said first layer, and a second layer [(8)] having semi-conducting properties is provided around said insulating layer, and [in that] grounding means [(18, 21, 22, 24, 26, 28, 30, 32, 34, 35, 36, 37, 38, 39, 40, 42, 44, 46, 48, 52) are provided to connect] for connecting at least one point of said winding to ground.

2 (Amended), line 1, delete "characterized in that" and insert --wherein--.

3. (Amended) The machine according to claim 1 [or 2], [characterized in that] wherein the potential of said first layer is substantially equal to the potential of the conductor.

4 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--.

5 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--.

6. (Amended) The machine according to [any one of the claims 1, 2, 3, 4 or 5, characterized in that] claim 1, wherein at least two adjacent layers have substantially equal thermal expansion coefficients.

7. (Amended) The machine according to [any one of the preceding claims, characterized in that] claim 1, wherein said current-carrying conductor comprises a number of strands, only a minority of said strands being non-isolated from each other.

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8. (Amended) The machine according to [any one of the preceding claims, characterized in that] claim 1, wherein each of said three layers is [fixed] fixedly connected to adjacent layer along substantially the whole connecting surface.

9 (Amended), line 3, delete "characterized in that" and insert
--wherein--.

10 (Amended), line 1, delete "characterized in";

Line 2, delete "that" and insert --wherein--.

11. (Amended) The machine according to [any one of the preceding claims, characterized in that] claim 9, wherein said grounding means comprise means for direct grounding of the winding.

12. (Amended) The machine according to [any one of the claims 1 through 10, characterized in that] claim 1, wherein said grounding means comprise means for low-resistance grounding of the winding.

13. (Amended) The machine according to claim 12, said machine having a Y-connected winding [the] neutral point [of which being available, characterized in that] and wherein said low-resistance grounding means comprises a low-resistance resistor connected between the neutral point and ground.

14. (Amended) The machine according to claim 12, said machine having a Y-connected winding the neutral point further comprising a transformer having a primary and a secondary winding and wherein [of which being available, characterized in that] said low-resistance grounding means comprises a resistor

connected in the secondary of [a] the transformer whose primary is connected between the neutral point and ground.

15. (Amended) The machine according to [any one of the claims 1 through 10, characterized in that] claim 1, wherein said grounding means comprise means for low-inductance grounding of the winding.

16. (Amended) The machine according to claim 15, said machine having a Y-connected winding the neutral point and wherein [of which being available, characterized in that] said low-inductance grounding means comprises a low-inductance inductor connected between the neutral point and ground.

17. (Amended) The machine according to claim 15, said machine having a Y-connected winding [the] neutral point, further comprising a transformer having a primary and a secondary winding and wherein [of which being available, characterized in that] said low-inductance grounding means comprises an inductor connected in the secondary of [a] the transformer whose primary is connected between the neutral point and ground.

18. (Amended) The machine according to [any one of the claims 1 through 10, characterized in that] claim 1, wherein said grounding means comprise means for high-resistance grounding of the winding.

19. (Amended) The machine according to claim 18, said machine having a Y-connected winding [the] neutral point and wherein [of which being available,

characterized in that] said high-resistance grounding means comprise a high-resistance resistor connected between the neutral point and ground.

20. (Amended) The machine according to claim 18, said machine having a Y-connected winding [the] neutral point further comprising a transformer having a primary and a secondary winding and wherein [of which being available, characterized in that] and wherein said high-resistance grounding means comprise a resistor connected in the secondary of [a] the transformer whose primary is connected between the neutral point and ground.

21. (Amended) The machine according to [any one of the claims 1 through 10, characterized in that] claim 1, wherein said grounding means comprise means for high-inductance grounding of the winding.

22. (Amended) The machine according to claim 21, said machine having a Y-connected winding the neutral point and wherein [of which being available, characterized in that] said high-inductance grounding means comprises a high-inductance inductor connected between the neutral point and ground.

23. (Amended) The machine according to claim 21, said machine having a Y-connected winding [the] neutral point further comprising a transformer having a primary and a secondary winding and wherein [of which being available, characterized in that] said high-inductance grounding means comprises an inductor connected in the secondary of [a] the transformer whose primary is connected between the neutral point and ground.

24. (Amended) The machine according to [any one of the claims 1 through 10] claim 1, said machine having a Y-connected winding [the] neutral point [of which being available, characterized in that] further comprising a transformer having a primary and a secondary winding and wherein said grounding means comprises a reactor connected in the secondary of [a] the transformer whose primary is connected between the neutral point and ground, said reactor having characteristics such that [the] capacitive current during a ground fault is substantially neutralized by an equal component of inductive current contributed for by the reactor.

25. (Amended) The machine according to [any one of the claims 1 through 10, characterized in that] claim 1, wherein said grounding means comprises means for changing the impedance of the connection to ground in response to a ground fault.

26. (Amended) The machine according to [any one of the claims 1 through 10, characterized in that] claim 1, wherein said grounding means comprises an active circuit.

27. (Amended) The machine according to [any one of the claims 1 through 10, characterized in that] claim 1, wherein said grounding means comprises a Y- Δ grounding transformer connected to the network side of the machine.

28. (Amended) The machine according to [any one of the claims 1 through 10, characterized in that] claim 1, wherein said grounding means comprise a [so-called] zigzag grounding transformer connected to the network side of the machine.

29. (Amended) The machine according to [any one of the claims 1 through 10] Claim 1, said machine having a Y-connected winding [the] neutral point [of which being available, characterized in that] wherein said grounding means comprises a suppression filter tuned for the n:th harmonic.

30. (Amended) The machine according to [any one of the claims 1 through 10] Claim 1, said machine having a Y-connected winding [the] neutral point [of which being available, characterized in that] wherein said grounding means comprise a switchable suppression filter detuned for the n:th harmonic.

31. (Amended) The machine according to claim 29, wherein [or 30, characterized in that] said n:th harmonic is the third harmonic.

32. (Amended) The machine according to [any one of the claims 1 through 10] claim 1, said machine having a Y-connected winding [the] neutral point [of which being available, characterized in that] wherein said grounding means comprise an overvoltage protector connected between said neutral point and ground.

33. (Amended) The machine according to [any one of the claims 1 through 10] claim 1, said machine having a Y-connected winding [the] neutral point [of which being available, characterized in that] wherein an overvoltage protector is connected between said neutral point and ground in parallel to said grounding means.

Claim 34. (Amended) A distribution or transmission network, [characterized in that it] which comprises at least one machine according to [any one of the claims 1 through 33] claim 1.

Add the following new claims 35-48:

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--35. A high voltage electric machine comprising at least one winding, wherein said winding comprises a cable including at least one current-carrying conductor and a magnetically permeable, electric field confining cover surrounding the conductor, said cable forming at least one uninterrupted turn in the corresponding winding of said machine.

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36. The machine of claim 35, wherein the cover comprises an insulating layer surrounding the conductor and an outer layer surrounding the insulating layer, said outer layer having a conductivity sufficient to establish an equipotential surface around the conductor.

37. The machine of claim 35, wherein the cover comprises an inner layer surrounding the conductor and being in electrical contact therewith; an insulating layer surrounding the inner layer and an outer layer surrounding the insulating layer.

38. The machine of claim 37, wherein the inner and outer layers have semiconducting properties.

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39. The machine of claim 38, wherein the cover is formed of a plurality of layers including an insulating layer and wherein said plurality of layers are substantially void free.

40. The machine of claim 38, wherein the cover is in electrical contact with the conductor.

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41. The machine of claim 40, wherein the layers of the cover have substantially the same temperature coefficient of expansion.

42. The machine of claim 35, wherein the machine is operable at 100% overload for two hours.

43. The machine of claim 35, wherein the cable is operable free of sensible end winding loss.

44. The machine of claim 35, wherein the winding is operable free of partial discharge and field control.

45. The machine of claim 35, wherein the winding comprises multiple uninterrupted turns.

46. The machine of claim 35, wherein the cable comprises a transmission line.

47. The machine of claim 35, wherein the cable is flexible.--

If any multiple dependencies exist in the claims, it is respectfully requested that such dependencies be removed.

REMARKS

By this Preliminary Amendment the original claims have been amended to better conform the claims with U.S. practice and to remove multiple dependencies therefrom. A typographical error in the specification has been corrected. New

Respectfully submitted,

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- 10 -